Application No.: 09/851,952 Docket No.: 101328-0151RCE

LIST OF PENDING CLAIMS

1-17 (Canceled)

18. (Currently Amended) A photoresist having a micron or submicron linewidth variation when exposed to radiation having a wavelength of about 248 nm or less, comprising a polycyclic copolymer, a photoacid generator and a base having a molar concentration ratio in a range of about 0.2 to 1.5 about 1 relative to the photoacid generator.

- 19. (Previously Presented) A photoresist composition, comprising
 - a photoresist polymer,
 - a photoacid generator, and
 - a base additive,

wherein the photoacid generator has a concentration of at least about 6 percent by weight and the base has a molar concentration ratio in a range of about 0.2 to 1.5 relative to the photoacid generator to buffer acid generated by the photoacid generator upon exposure of the composition to radiation having a wavelength of less than about 248 nm, thereby providing a photoresist with reduced linewidth variation.

- 20. (Currently Amended) A photoresist having micron or submicron linewidth variation when exposed to radiation having a wavelength of about 248 nm or less, comprising
- a cycloolefin based polymer or copolymer, a photoacid generator and a base having a molar concentration in a range of about 0.2 to 1.5 about 1 relative to the photoacid generator.
- 21. (Currently Amended) The photoresist of claim 20, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.5 to 1.5 about 1.
- 22. (Previously Presented) The photoresist of claim 20, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.4 to 0.6.
- 23. (Currently Amended) The photoresist of claim 20, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.5 to about 0.8 1.0.

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24. (Original) The photoresist of claim 20, wherein the cycloolefin based polymer or copolymer is a cycloolefin-maleic anhydride copolymer.

- 25. (Currently Amended) A photoresist having micron or submicron linewidth variation when exposed to a wavelength of about 248 nm or less, comprising
- a polymer or copolymer containing fluorinated alcohol substituted polycyclic ethylinically unsaturated monomeric unit, a photoacid generator and a base having a molar concentration ratio in a range of about 0.2 to about 1 1.5 relative to the photoacid generator.
- 26. (Currently Amended) The photoresist of claim 25, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.5 to about 1 1.5.
- 27. (Previously Presented) The photoresist of claim 25, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.4 to 0.6.
- 28. (Currently Amended) The photoresist of claim 25, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.5 to about 0.8 \(\frac{1}{4}\).

29-49 (Canceled)

- 50. (Previously Presented) A photoresist having micron or submicron linewidth variation when exposed to radiation having a wavelength of about 248 nm or less, comprising
- a polymer or copolymer containing a fluorinated alcohol substituted polycyclic ethylinically unsaturated monomeric unit, a photoacid generator having a concentration of at least 6 percent by weight and a base having a molar concentration ratio in a range of about 0.2 to 1.5 relative to the photoacid generator.
- 51. (Previously Presented) The photoresist of claim 50, wherein the photoacid generator has a concentration in a range of about 6 percent to about 50 percent by weight.
- 52. (Currently Amended) The photoresist of claim 18, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.5 to about 1 1.5.

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53. (Previously Presented) The photoresist of claim 19, wherein said photoresist polymer comprises a polycyclic copolymer.

- 54. (Previously Presented) The photoresist of claim 19, wherein said photoresist polymer comprises a cycloolefin based polymer or copolymer.
- 55. (Previously Presented) The photoresist of claim 19, wherein said photoresist polymer contains fluorinated alcohol substituted polycyclic ethylinically unsaturated monomeric unit.
- 56. (Previously Presented) The photoresist of claim 18, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.4 to about 0.6.
- 57. (Previously Presented) The photoresist of claim 18, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.3 to about 0.8.
- 58. (Previously Presented) The photoresist of claim 20, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.3 to about 0.8.
- 59. (Previously Presented) The photoresist of claim 25, wherein the molar concentration ratio of the base relative to the photoacid generator is in a range of about 0.3 to about 0.8.